

ABSTRACT OF THE DISCLOSURE

In a rotary electric machine, a stator coolant passage means including a stator coolant tube and a damping member is provided between the inner periphery of a front housing and a stator core to surround the stator core. Since the stator core is cooled by coolant flowing in the stator coolant tube, heat transmission from the stator core to the damping member is decreased. Thus, the damping member is restricted from deteriorating due to high temperature. Further, an additional coolant tube is provided separately from the stator coolant passage means to cool heat-generating bodies such as a commutating device and a voltage generator. The coolant flows in the stator coolant tube prior to the additional coolant tube so that the coolant flowing in the stator coolant tube is not thermally affected by the coolant flowing in the additional coolant tube.